

Name: _____

Period: _____ Table: _____

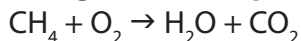
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Section A - Multiple Choice [1 point each]

Choose the best answer from the list and write the corresponding letter in the space provided.

- _____ 1. A **physical property** of a liquid may be investigated by:
A) reacting it with an acid
B) measuring its volume
C) igniting it on fire
D) mixing it with another liquid and getting a precipitate
- _____ 2. The melting of plastic is classified as a **physical change** because it:
A) transfers energy
B) absorbs heat (is endothermic)
C) produces no new substances
D) changes the chemical properties of the plastic
- _____ 3. An example of a **physical property** is:
A) Toxicity
B) Flammability
C) Reactivity
D) Temperature
- _____ 4. A **chemical change** has taken place if:
A) light is produced
B) matter changes from a solid to a liquid
C) heat is absorbed (endothermic)
D) a substance is dissolved
- _____ 5. An example of a **chemical property** is:
A) Concentration
B) Density
C) Temperature
D) Flammability
- _____ 6. The state of matter for an object that has a **definite volume** and a **definite shape** is:
A) solid
B) liquid
C) gas
D) plasma
- _____ 7. The state of matter when its molecules are moving quickly and are electrically charged is:
A) solid
B) liquid
C) gas
D) plasma

Use the following chemical equation for Questions 8 -10



- _____ 8. What are the **reactants** in the above equation:
A) $\text{CH}_4 + \text{H}_2\text{O}$
B) $\text{CH}_4 + \text{O}_2$
C) $\text{H}_2\text{O} + \text{CO}_2$
D) $\text{O}_2 + \text{CO}_2$
- _____ 9. What are the **products** in the above equation:
A) $\text{CH}_4 + \text{H}_2\text{O}$
B) $\text{CH}_4 + \text{O}_2$
C) $\text{H}_2\text{O} + \text{CO}_2$
D) $\text{O}_2 + \text{CO}_2$
- _____ 10. CO_2 is an example of:
A) a compound
B) an element
C) a diatomic molecule
D) a mixture

- _____ 11. Which of the following BEST describes an **element**?
A) any substance that has chemical properties.
B) any substance made from two or more different objects.
C) a collection of atoms bonded together that behave as a unit.
D) any substance that cannot be broken down into simpler substances.
- _____ 12. Which of the following BEST describes a **molecule**?
A) a collection of elements bonded together that behave as a unit.
B) a collection of matter.
C) a collection of two or more different elements.
D) a collection of mixtures that behave as a unit.
- _____ 13. Which of the following BEST describes a **mixture**?
A) a substance composed of two or more materials that are physically mixed together but not chemically combined.
B) a substance composed of two or more materials that are physically mixed and result in a chemical reaction.
C) a collection of elements bonded together that behave as a unit.
D) a collection of elements that when mixed become a solid.
- _____ 14. The following is an example of **solid-liquid** mixture:
A) oil and water
B) sugar water
C) carbonated water
D) air
- _____ 15. The following is an example of **liquid-liquid** mixture:
A) oil and water
B) sugar water
C) carbonated water
D) air
- _____ 16. The following is an example of **gas-liquid** mixture:
A) oil and water
B) sugar water
C) carbonated water
D) air
- _____ 17. A Bose-Einstein Condensate occurs at:
A) extremely high temperatures nearing the temperature of the sun
B) normal temperatures nearing room temperature
C) extremely low temperatures nearing absolute zero
- _____ 18. If iodine freezes at 114°C and boils at 184°C, what is its physical state at room temperature (20°C)?
A) Gas
B) Liquid
C) Solid
D) Bose-Einstein Condensate
- _____ 19. Which of the following elements only occur naturally as **diatomic molecules**?
A) Carbon (C)
B) Neon (Ne)
C) Hydrogen (H)
D) Helium (He)
- _____ 20. Which of the following is an **element**?
A) Steel
B) Water
C) Salt
D) Oxygen

Section B - Fill-in-the-Blank [1 point each]

Choose the best answer from the Word Bank and write the corresponding letter in the space provided.

- A) Condensation
- B) Conflagration
- C) Deposition
- D) Evaporation

- E) Freezing
- F) Melting
- G) Procrastination
- H) Sublimation

____ 21.

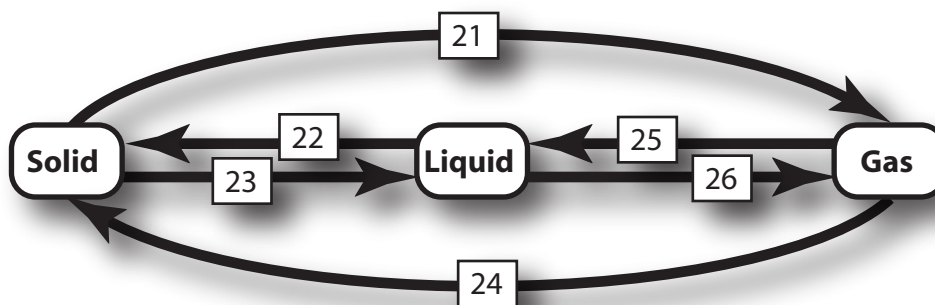
____ 22.

____ 23.

____ 24.

____ 25.

____ 26.



Section C - Change [1 point each]

Choose whether the change described is a Physical (P) or Chemical (C) Change:

____ 27. Molding a piece of Play-Doh

____ 28. Baking bread

____ 29. Tearing a piece of paper

____ 30. Lighting a match

Section D - Mixtures [1 point each]

Choose whether the mixture pictured is a Homogeneous (1) or Heterogeneous (2) Mixture:

____ 31.

____ 32.

____ 33.

____ 34.

____ 35.



31. Chocolate Chip Cookie



32. Quarter



33. Fruit Salad



34. Gold Ring



35. Smoke